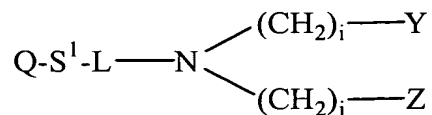


ABSTRACT

A metal chelating composition having the formula:



wherein

- Q is a carrier;
- 5 S¹ is a spacer;
- L is -A-T-CH(X)- or -C(=O)-;
- A is an ether, thioether, selenoether, or amide linkage;
- T is a bond or substituted or unsubstituted alkyl or alkenyl;
- X is -(CH₂)_kCH₃, -(CH₂)_kCOOH, -(CH₂)_kSO₃H, -(CH₂)_kPO₃H₂, -(CH₂)_kN(J)₂,
- 10 or -(CH₂)_kP(J)₂, preferably -(CH₂)_kCOOH or -(CH₂)_kSO₃H;
- k is an integer from 0 to 2;
- J is hydrocarbyl or substituted hydrocarbyl;
- Y is -COOH, -H, -SO₃H, -PO₃H₂, -N(J)₂, or -P(J)₂, preferably, -COOH;
- Z is -COOH, -H, -SO₃H, -PO₃H₂, -N(J)₂, or -P(J)₂, preferably, -COOH; and
- 15 i is an integer from 0 to 4, preferably 1 or 2.